## SEQUENCE LISTING

<110> Dickey, Lynn

<221> CDS

Gasdaska, John Cox, Kevin <120> Expression of Biologically Active Polypeptides in Duckweed <130> 40989/267934 <150> US 09/915,873 <151> 2001-07-26 <150> US 60/293,330 <151> 2001-05-23 <150> US 60/221,705 <151> 2000-07-31 <160> 16 <170> FastSEQ for Windows Version 4.0 <210> 1 <211> 554 <212> DNA <213> Zea mays <400> 1 gatcaagtgc aaaggtccgc cttgtttctc ctctgtctct tgatctgact aatcttggtt 60 tatgattcgt tgagtaattt tggggaaagc ttcgtccaca gtttttttt cgatgaacag 120 tgccgcagtg gcgctgatct tgtatgctat cctgcaatcg tggtgaactt atgtctttta 180 tatccttcac taccatgaaa agactagtaa tctttctcga tgtaacatcg tccagcactg 240 ctattaccgt gtggtccatc cgacagtctg gctgaacaca tcatacgata ttgagcaaag 300 atctatcttc cctgttcttt aatgaaagac gtcattttca tcagtatgat ctaagaatgt 360 tgcaacttgc aaggaggcgt ttctttcttt gaatttaact aactcgttga gtggccctgt 420 ttctcggacg taaggccttt gctgctccac acatgtccat tcgaatttta ccgtgtttag 480 caagggcgaa aagtttgcat cttgatgatt tagcttgact atgcgattgc tttcctggac 540 ccgtgcagct gcgg <210> 2 <211> 498 <212> DNA <213> Artificial Sequence <220> <223> Duckweed codon optimized nucleotide sequence encoding human alpha-2B interferon

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cgc cac gac ttc ggc ttc ccg cag gag gag ttc ggc aac cag ttc cag 1 Arg His Asp Phe Gly Phe Pro Gln Glu Glu Phe Gly Asn Gln Phe Gln 35 40 45	144										
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	240										
	288										
gcg tgc gtg atc cag ggg gtt ggg gtt acg gag acg ccg ctg atg aag Ala Cys Val Ile Gln Gly Val Gly Val Thr Glu Thr Pro Leu Met Lys 100 105	336										
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gcc gag atc atg cgc tcc ttc agc ctg agc acc aac ctc cag gag agc Ala Glu Ile Met Arg Ser Phe Ser Leu Ser Thr Asn Leu Gln Glu Ser 145 150 150	480										
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   gaggagtttg gcaaccagtt ccaaaaggct gaaaccatcc ctgtcctcca tgagatgatc 180
   cagcagatet teaatetett cagcacaaag gacteatetg etgettggga tgagaceete 240
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gcc (	cac (	cgc Arg	ctc Leu 20	cac His	cag Gln	ctg ( Leu :	gcc Ala	ttc Phe 25	gac Asp	acc Thr	tac Tyr	cag Gln	gag Glu 30	ttc Phe	gag Glu	96
gag Glu	gcc Ala	tac Tyr 35	atc Ile	ccc Pro	aag Lys	gag Glu	cag Gln 40	aag Lys	tac Tyr	tcc Ser	ttc Phe	ctg Leu 45	cag Gln	aac Asn	ccc Pro	144
cag Gln	acc Thr 50	agc Ser	ctc Leu	tgc Cys	ttc Phe	tcc Ser 55	gag Glu	tcc Ser	atc Ile	ccc Pro	acc Thr 60	ccg Pro	tcc Ser	aac Asn	cgc Arg	192
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ttc Phe	gcc Ala	aac Asn	tcg Ser 100	Leu	gtg Val	tac Tyr	ggg Gly	gcc Ala 105	SCI	gac Asp	tcc Ser	aac Asn	gtc Val 110	-	gac Asp	336
ctc Leu	ctg Leu	aag Lys	Asp	cto Lev	gag Glu	gag Glu	ggg Gly 120	116	cag Glr	g acc	cto Lev	ato Met		g cgo Arg	ctc Leu	384

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Lys Phe Asp Thr Asn Ser His Asn Asp Asp Ala Leu Leu Lys Asn Tyr
ggg ctg ctc tac tgc ttc cgg aag gac atg gac aag gtc gag acc ttc
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Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met Asp Lys Val Glu Thr Phe
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 Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn Pro
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  Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile Phe Lys Gln Thr Tyr Ser
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